

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains.



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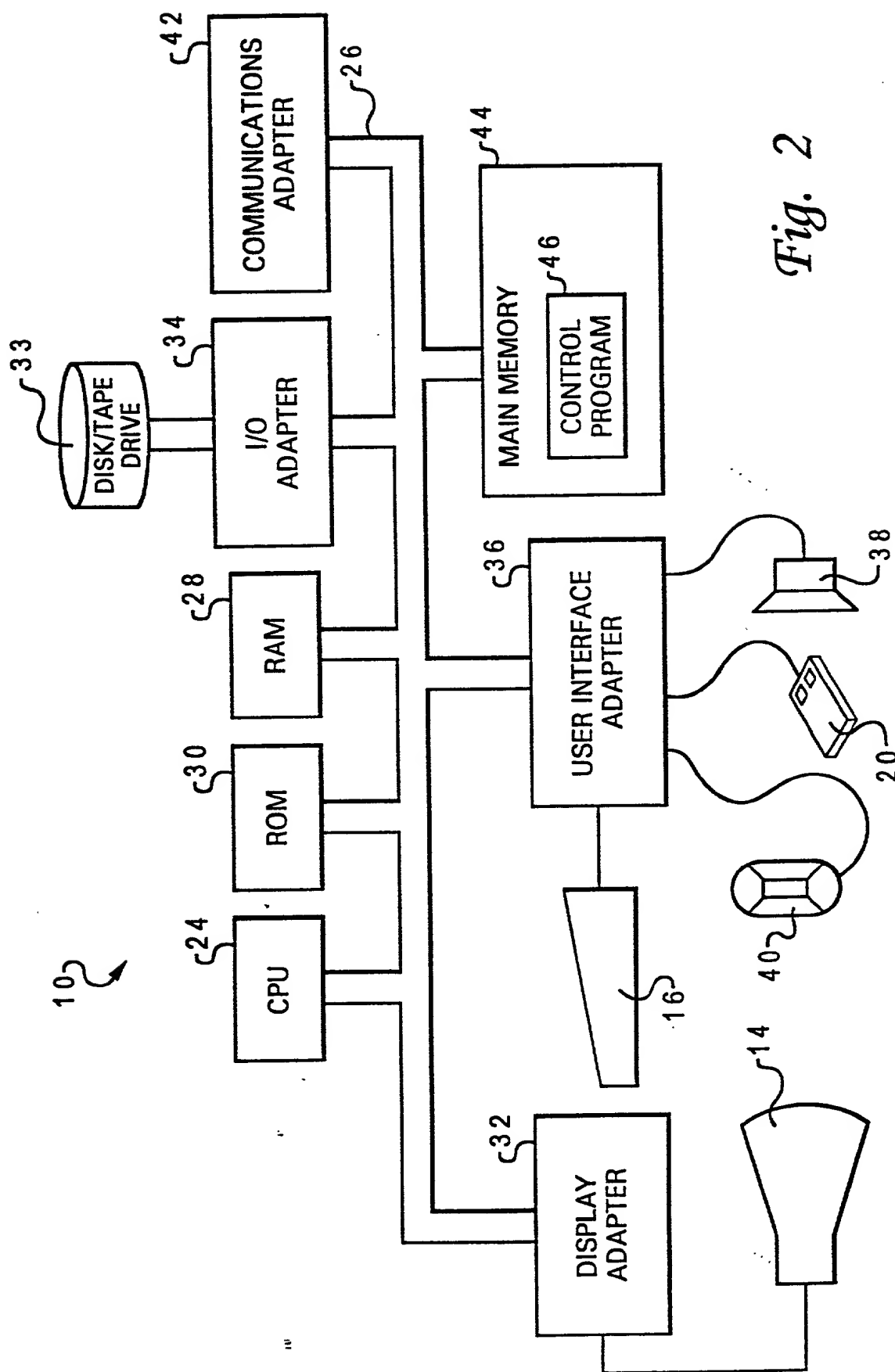
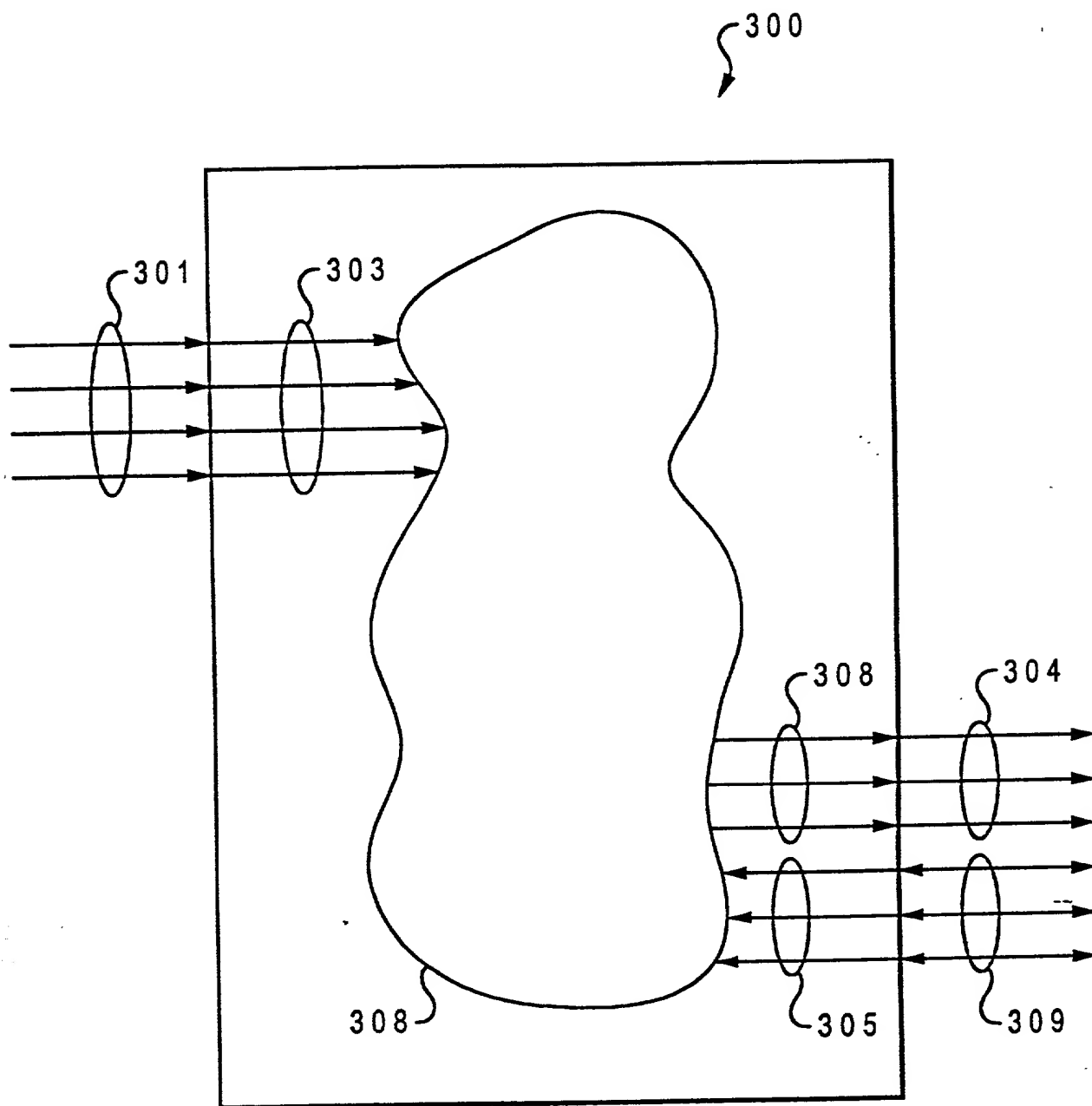
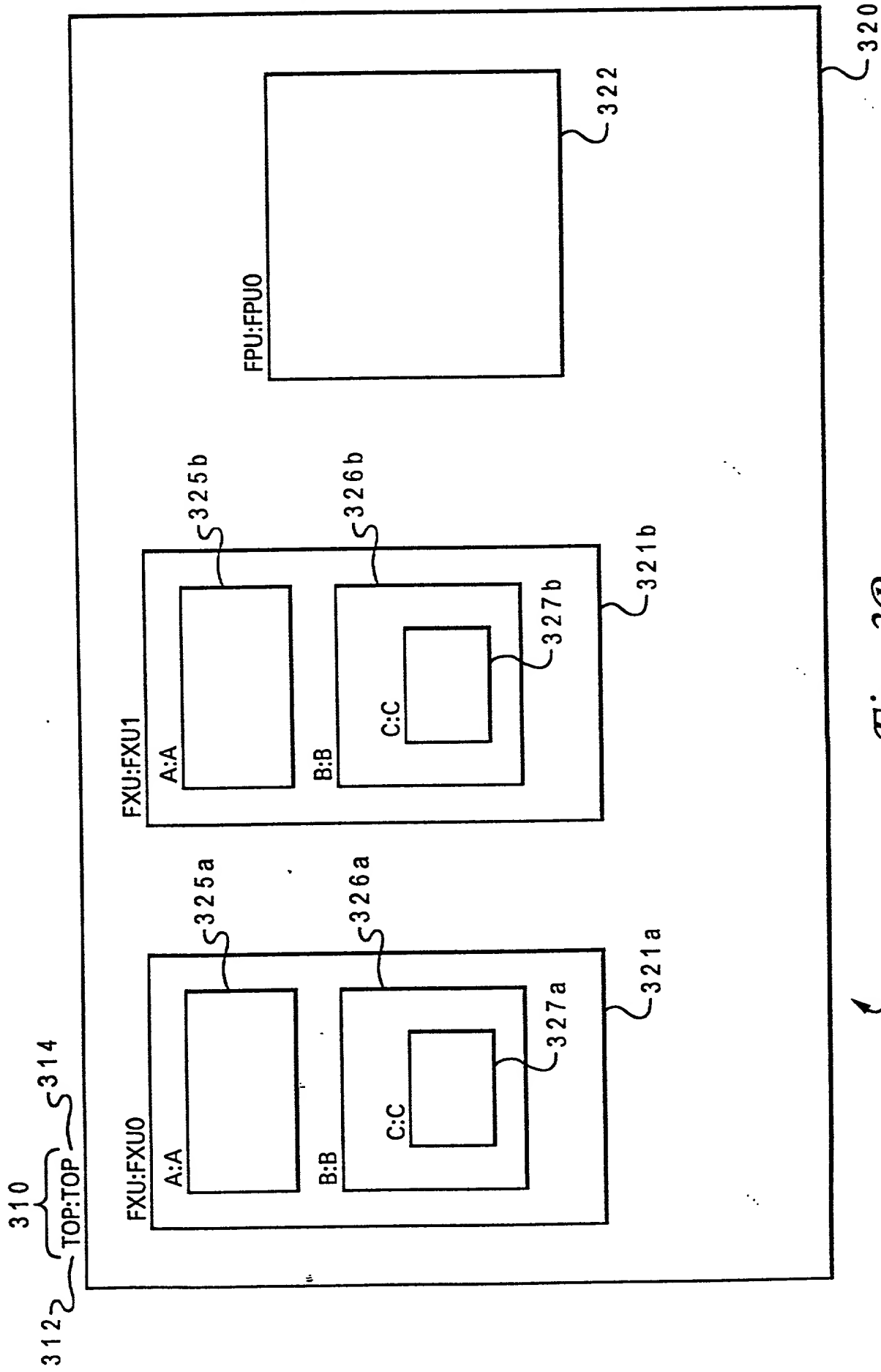
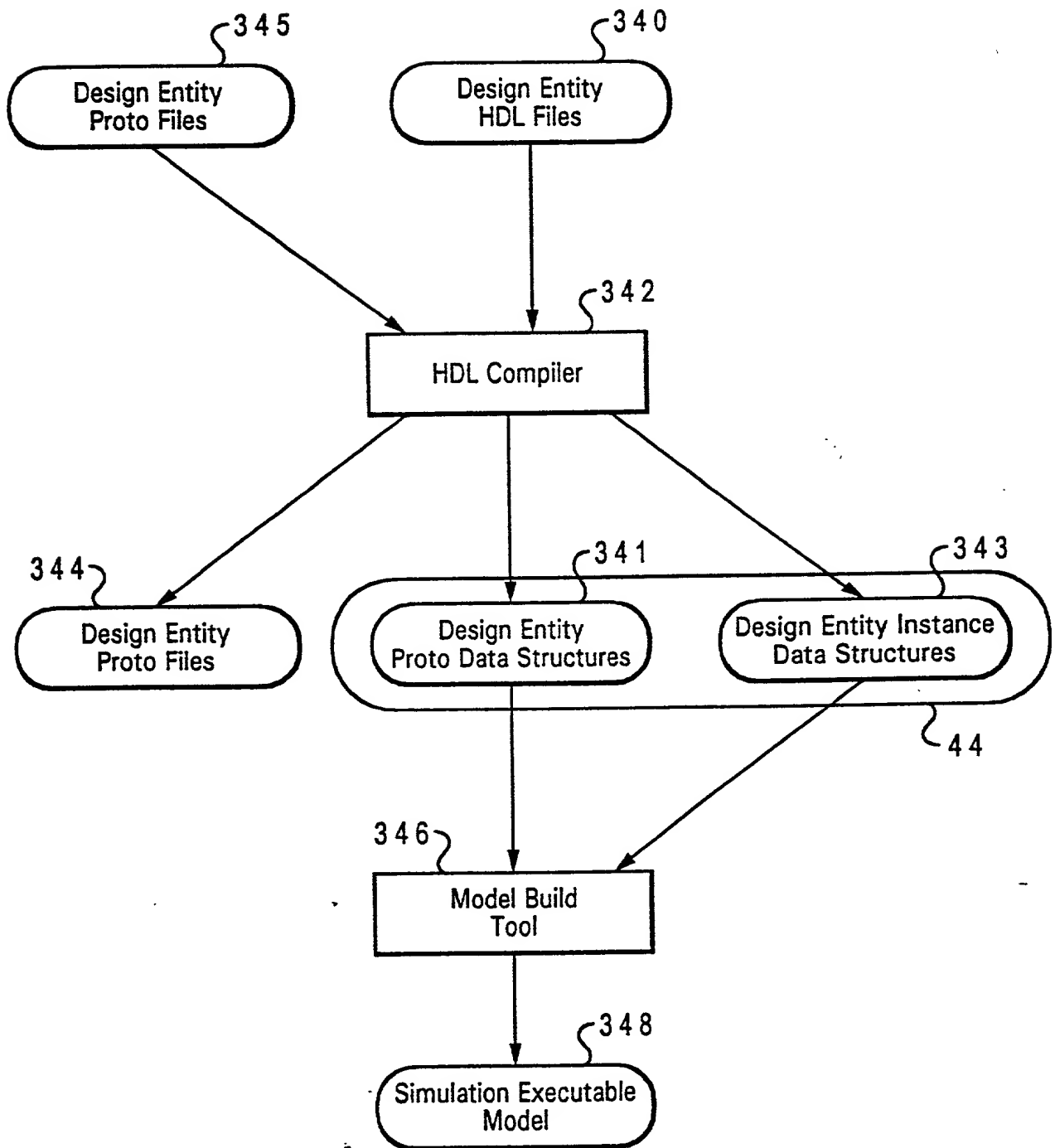


Fig. 2

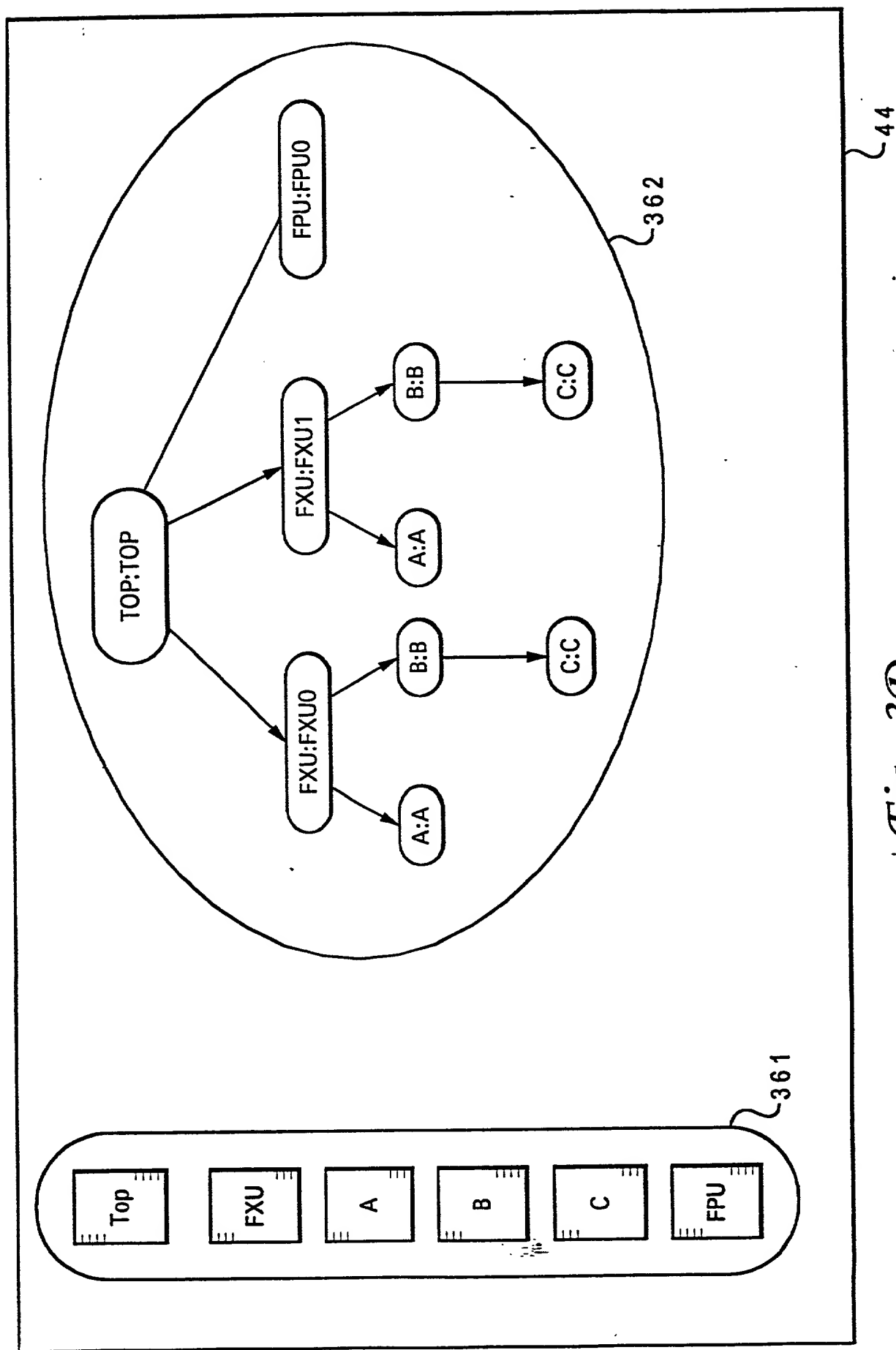


*Fig. 3A*

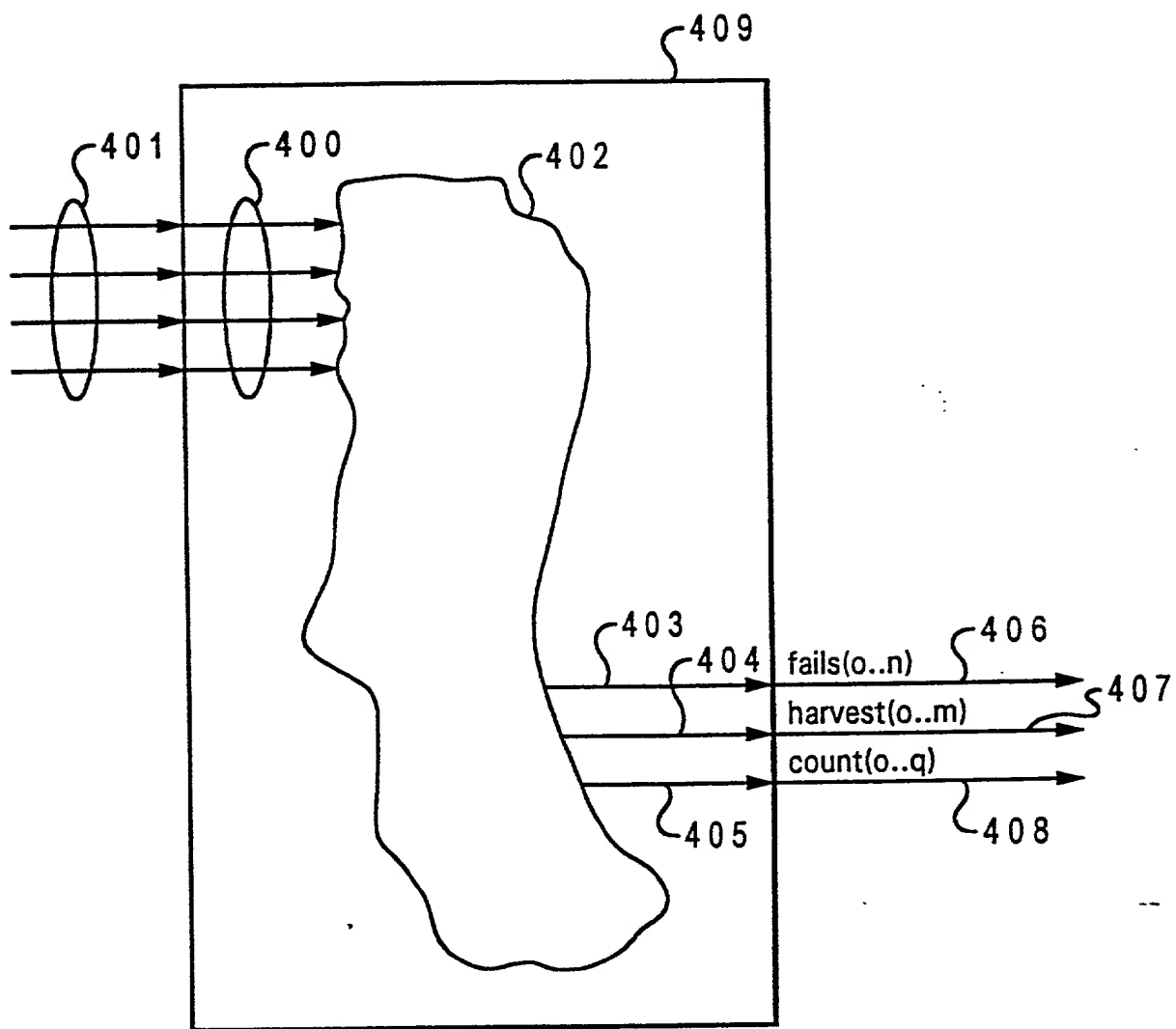




*Fig. 3C*



*Fig. 3D*



*Fig. 4A*

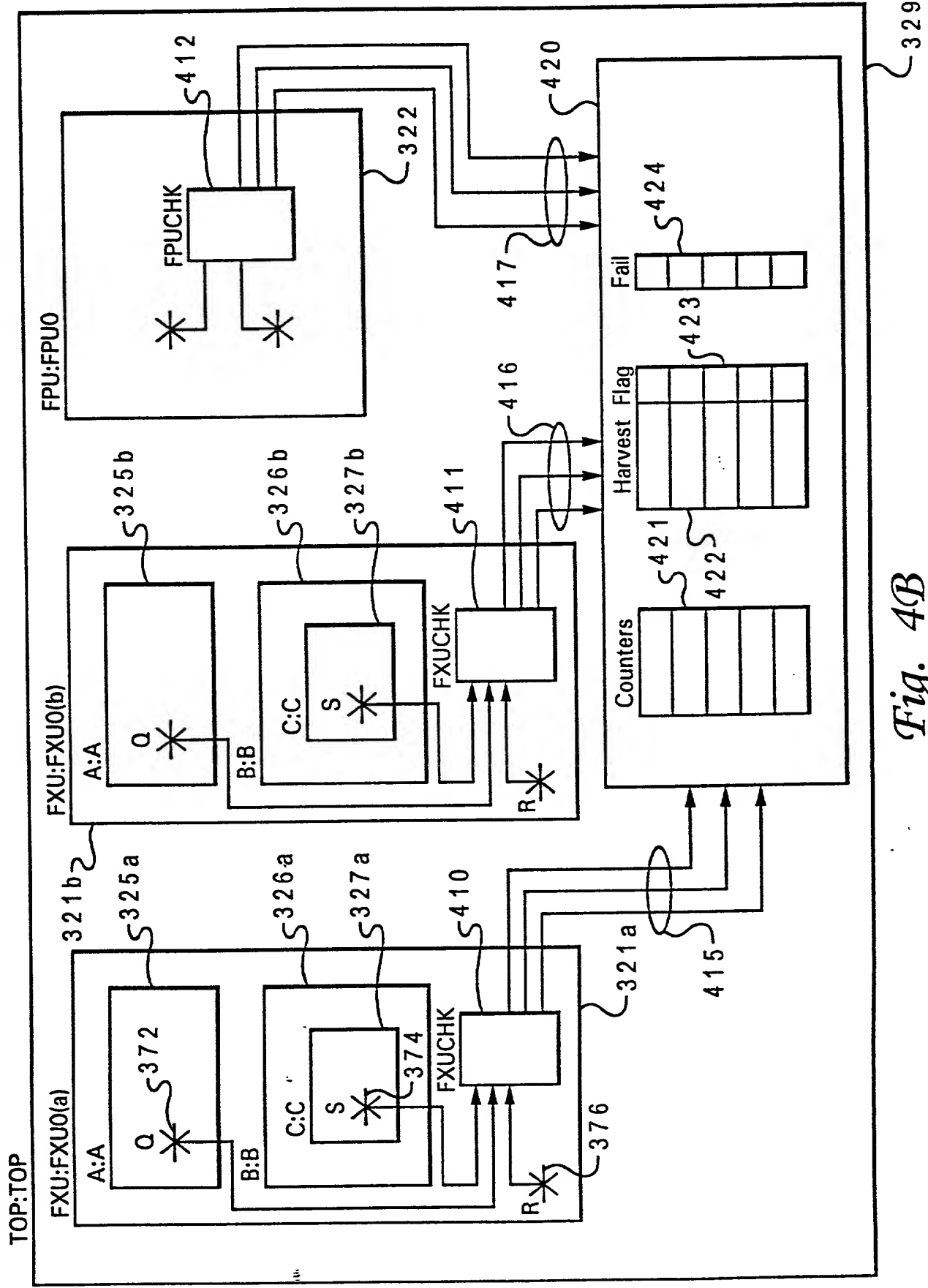


Fig. 4B



```

PORT(  S_IN      :    IN std_ulogic:
        Q_IN      :    IN std_ulogic:
        R_IN      :    IN std_ulogic:
        clock      :    IN std_ulogic:
        fails      :    OUT std_ulogic_vector(0 to 1);
        counts     :    OUT std_ulogic_vector(0 to 2);
        harvests   :    OUT std_ulogic_vector(0 to 1);
);

```

```

452 { -!! BEGIN
      -!! Design Entity: FXU;

```

```

4 5 3 { --!! Inputs
        --!! S_IN      => B.C.S;
        --!! Q_IN      => A.Q;
        --!! R_IN      => R;
        --!! CLOCK      => clock;
        --!! End Inputs

```

```
4 5 4 {
    !! Fail Outputs;
    !! 0 : "Fail message for failure event 0";
    !! 1 : "Fail message for failure event 1";
    !! End Fail Outputs;
```

```

455 { --!! Count Outputs;
      --!! 0 : <event0> clock;
      --!! 1 : <event1> clock;
      --!! 2 : <event2> clock;
      --!! End Count Outputs;

```

```

4 5 6 {  --!! Harvest Outputs;
        --!! 0 : "Message for harvest event 0";
        --!! 1 : "Message for harvest event 1";
        --!! End Harvest Outputs;

```

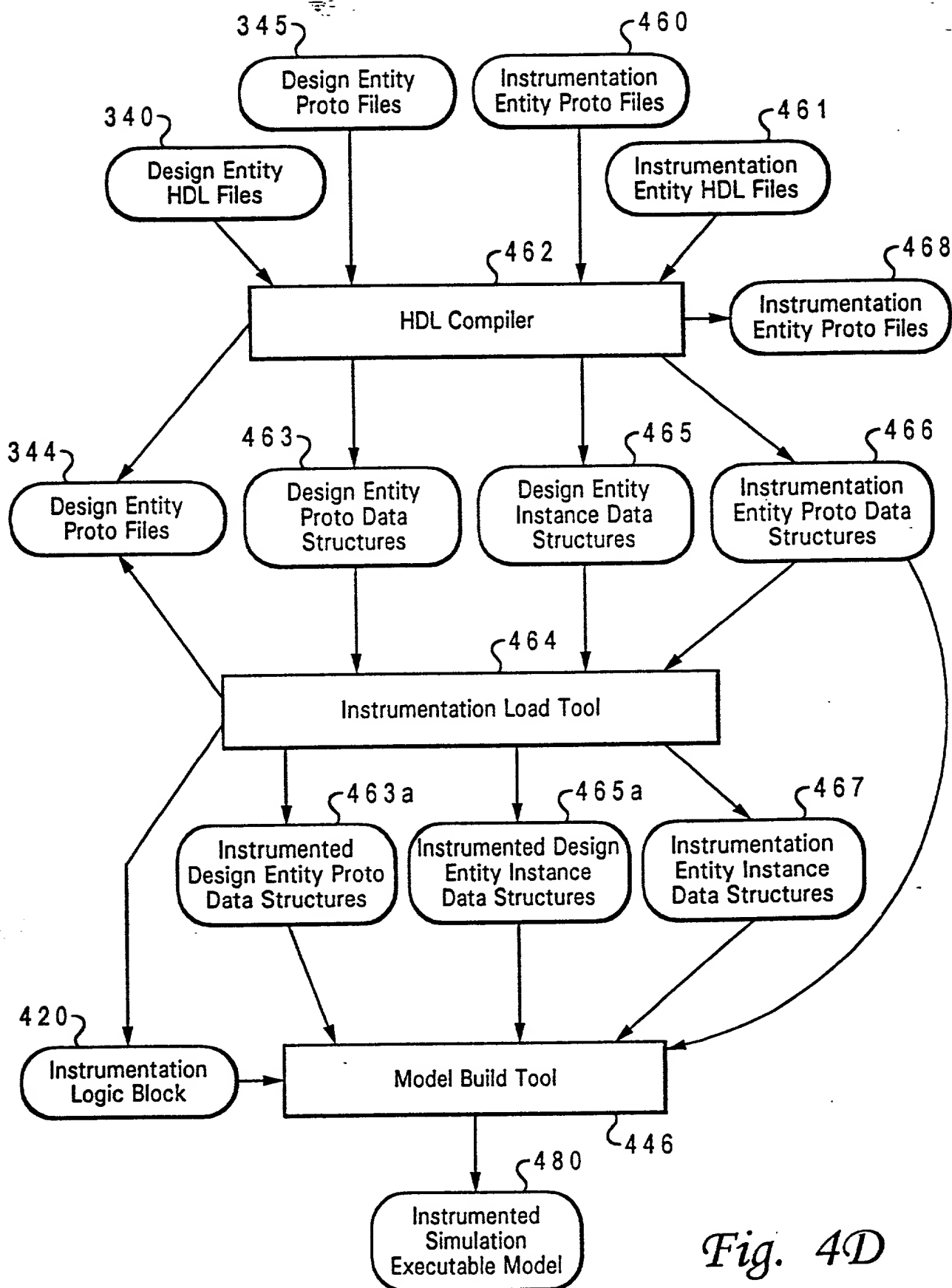
457 { -!! End;

**BEGIN**

... HDL code for entity body section ...

END;

*Fig. 4C*



*Fig. 4D*

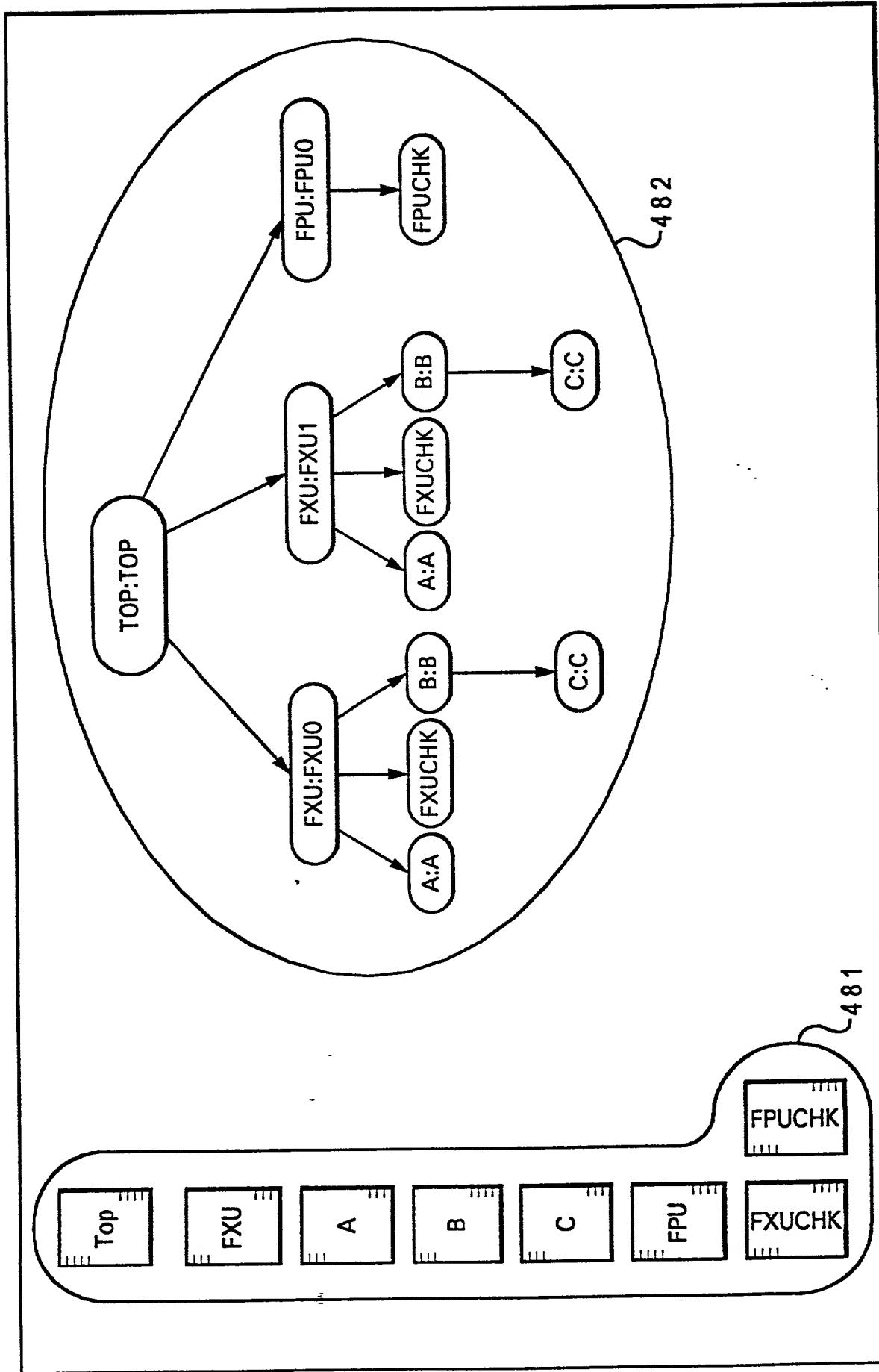


Fig. 4E



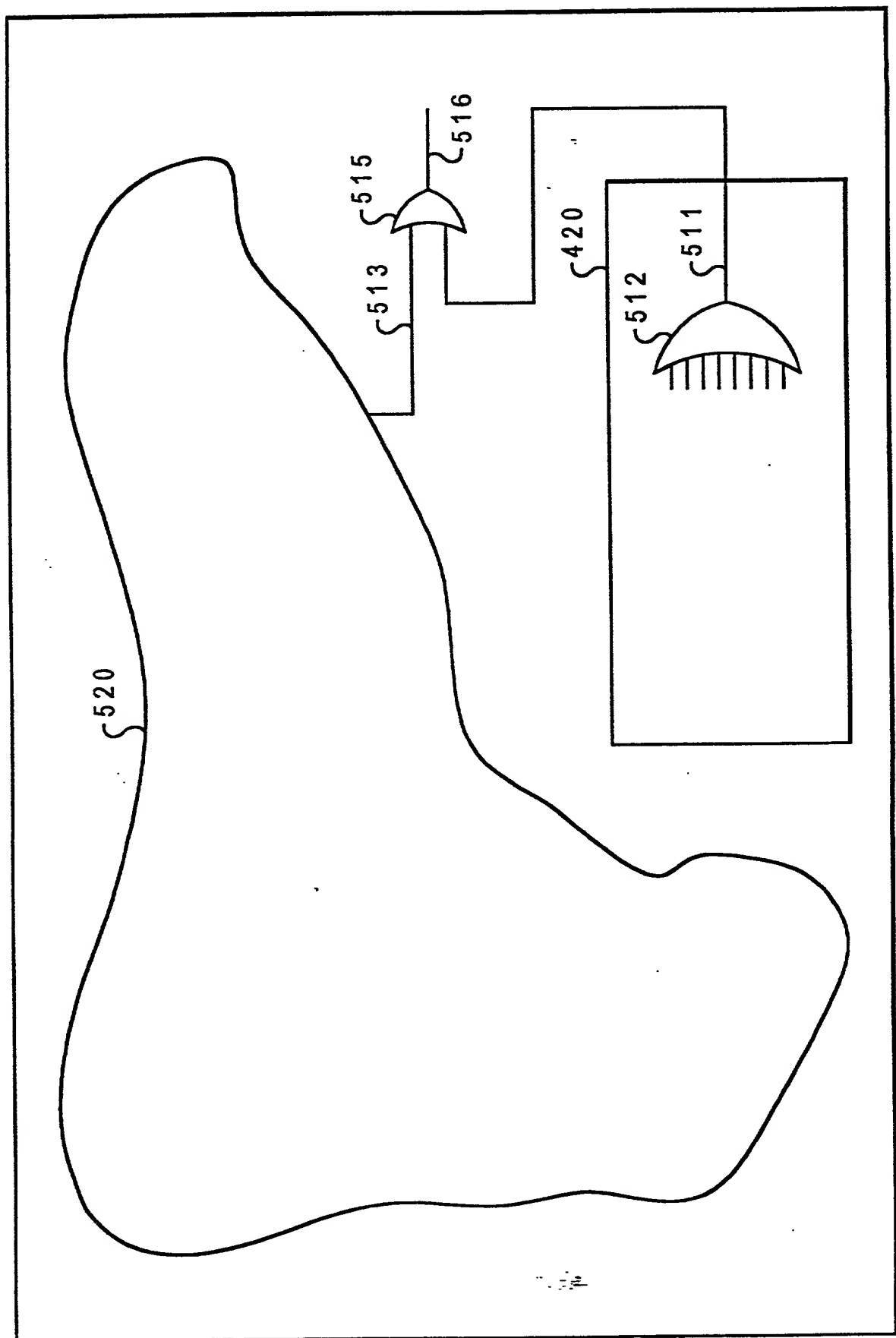
[illegible]

Fig. 5B



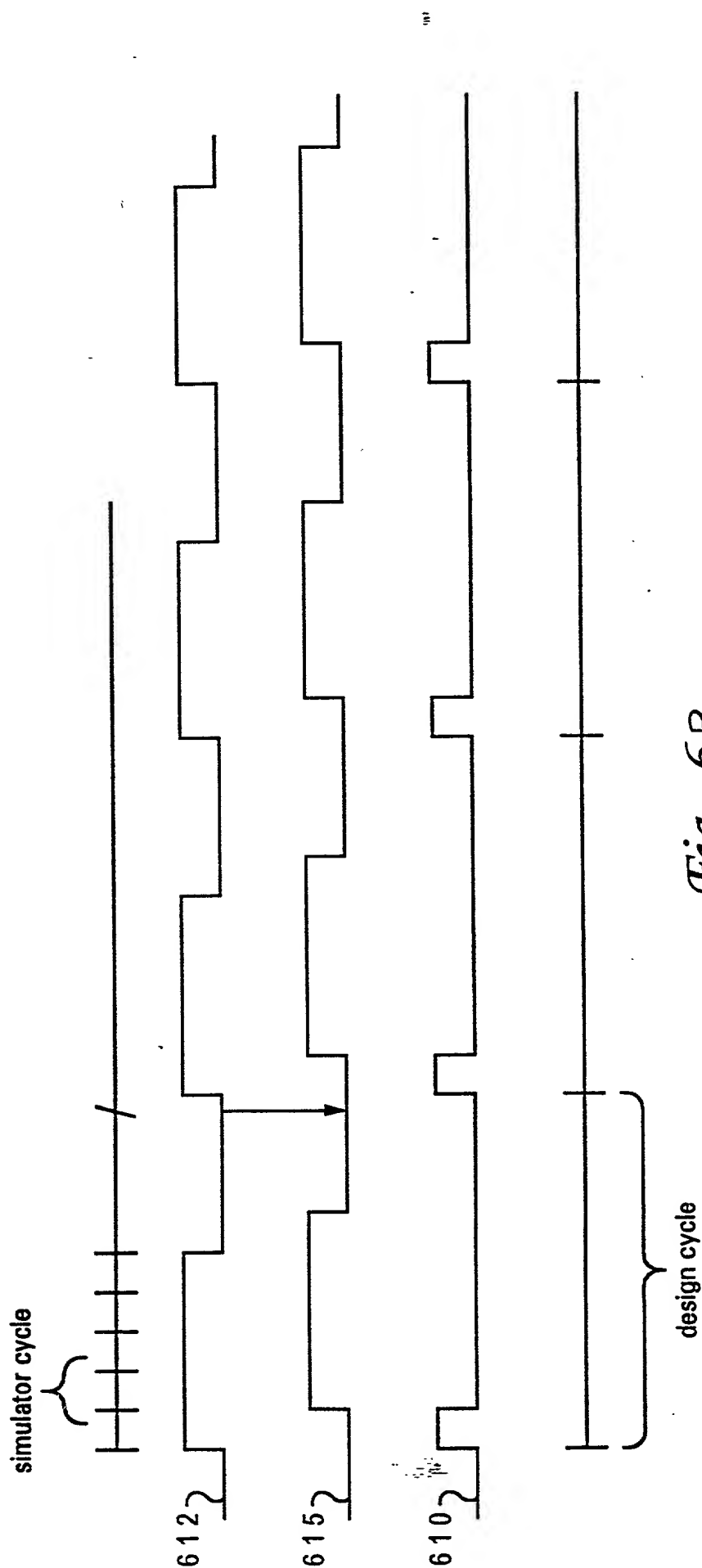


Fig. 6B





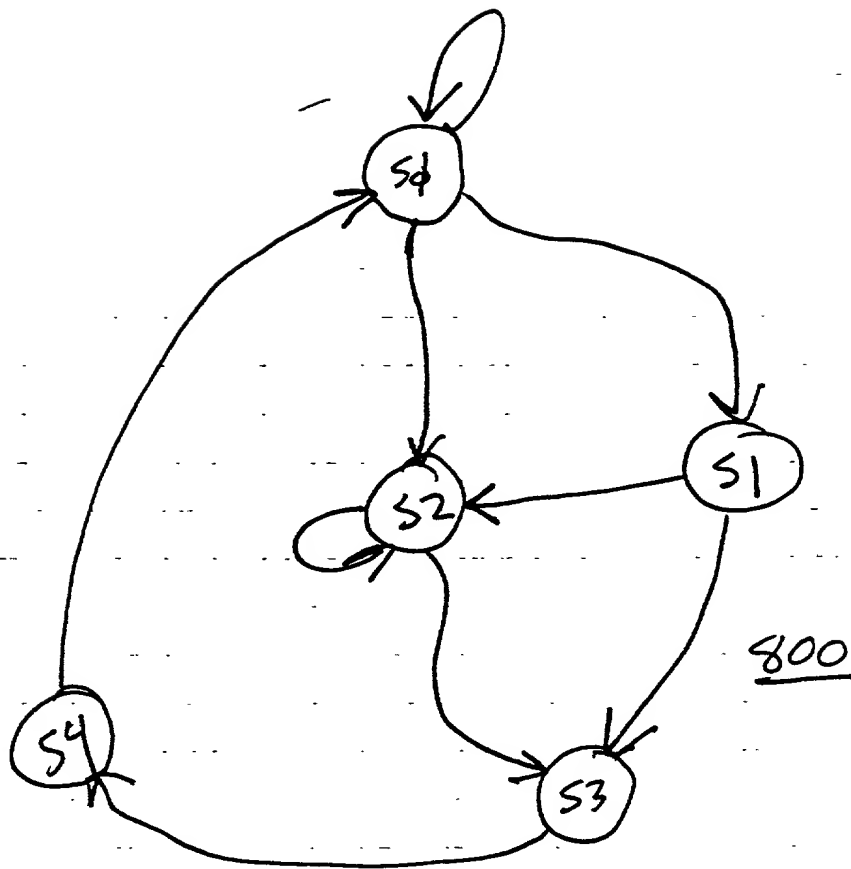


FIG. 8

(Prior Art)

entity Fsm: Fsm

850

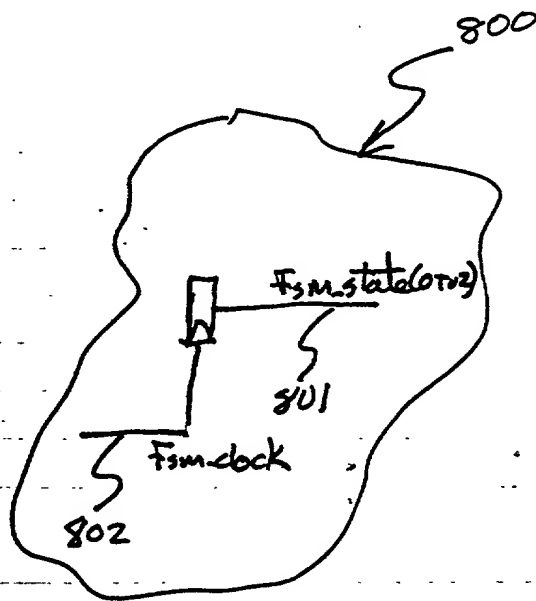


FIG. 8A  
(Prior Art)

entity Fsm IS

PORT (

.... ports for entity Fsm ....

);

ARCHITECTURE Fsm of Fsm IS

BEGIN

.... HDL code for Fsm and rest of the entity. ...

fsm-state(0 to 2) <= ... signal 801 ....

```
853 E --!! Embedded Fsm : exampleFsm;
859 E --!! clock          : (fsm_clock);
854 E --!! state_vector   : (fsm_state(0 to 2));
855 E --!! states encoding : (s0, s1, s2, s3, s4);
856 E --!! state_encoding : ('000', '001', '010', '011', '100');
857 E --!! arcs            : (s0 => s0, s0 => s1, s0 => s2,
                           s1 => s2, s1 => s3, s2 => s2,
                           s2 => s3, s3 => s4, s4 => s0);
858 E --!! end Fsm;
```

852

86

END;

FIG. 8B

entity FSM:FSM

850

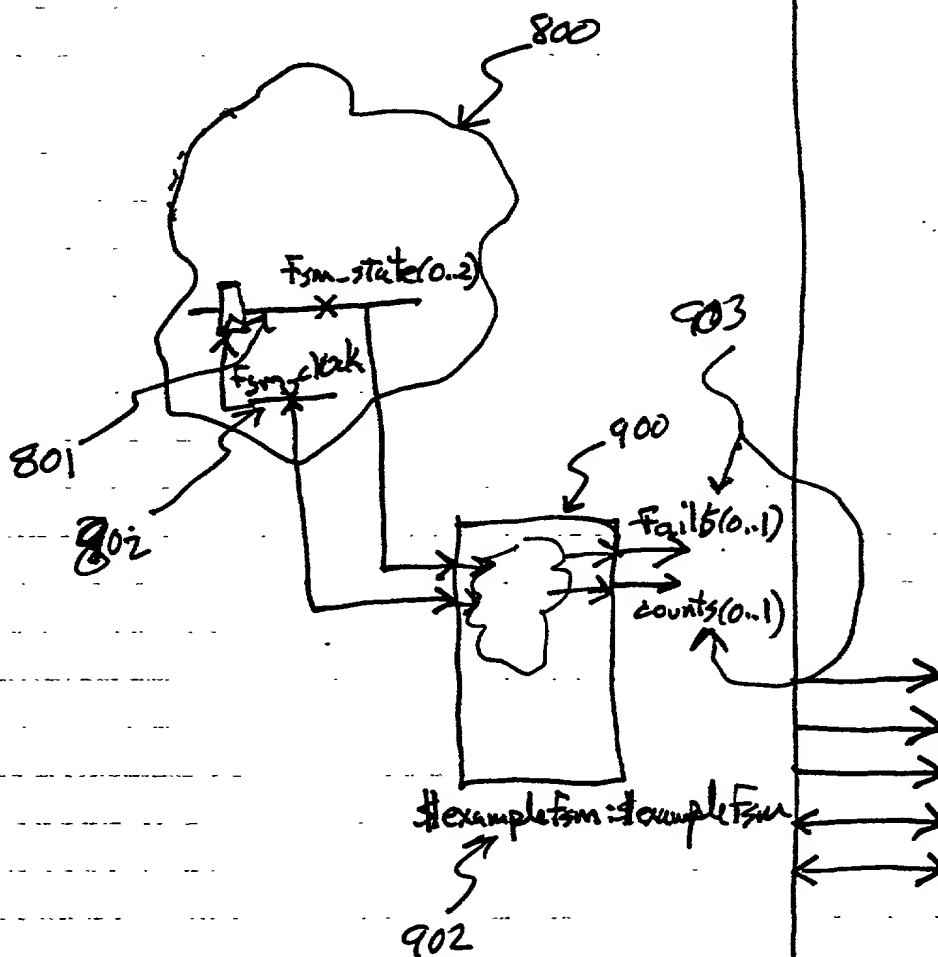


FIG. 9

TOP:TOP

1010a

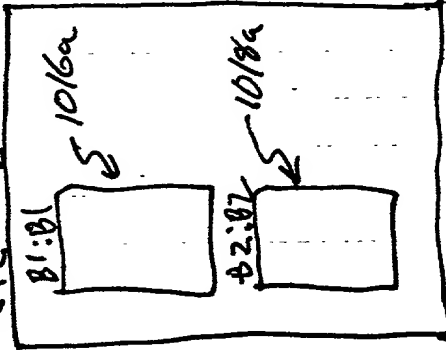
X:Y



1012a

1014a

Z:Z



1010b

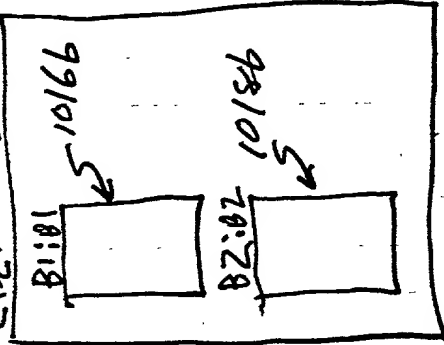
X:Z



1012b

1014b

Z:Z



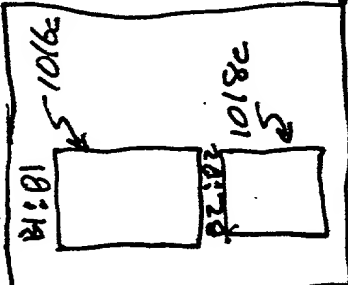
1020

Y:Y



1022

Z:Z



1000

FIG. 10A

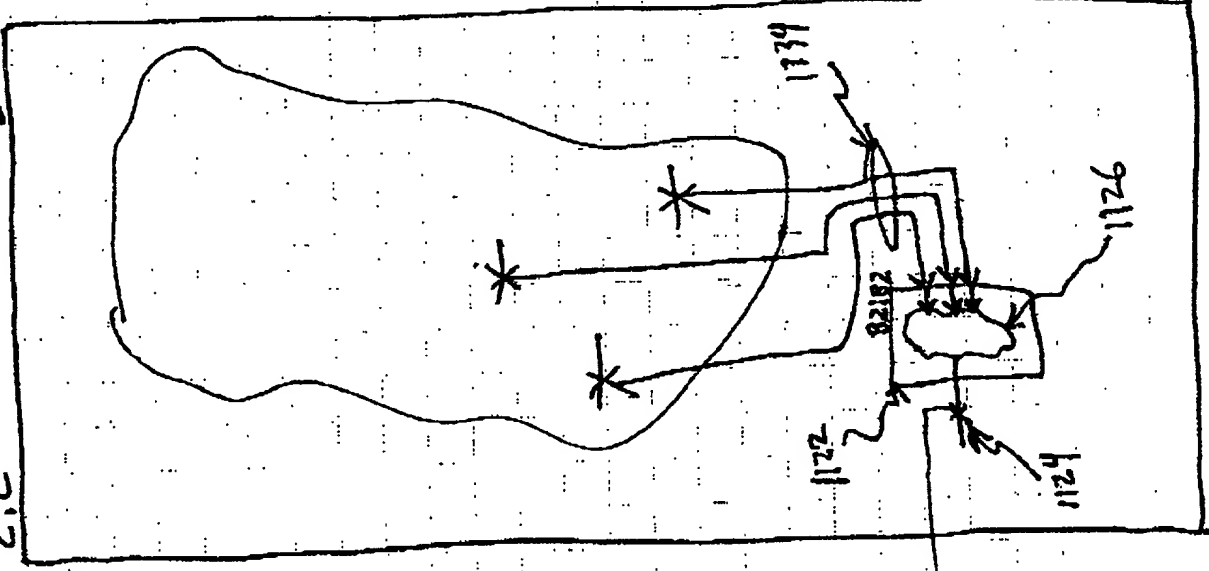


SECRET 1130

TOP:TOP

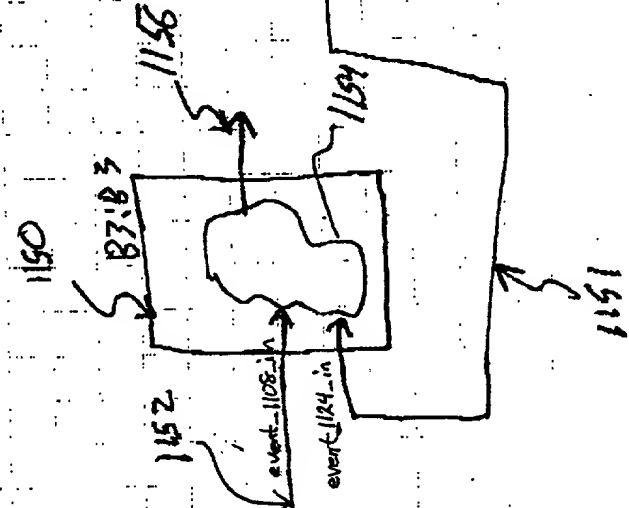
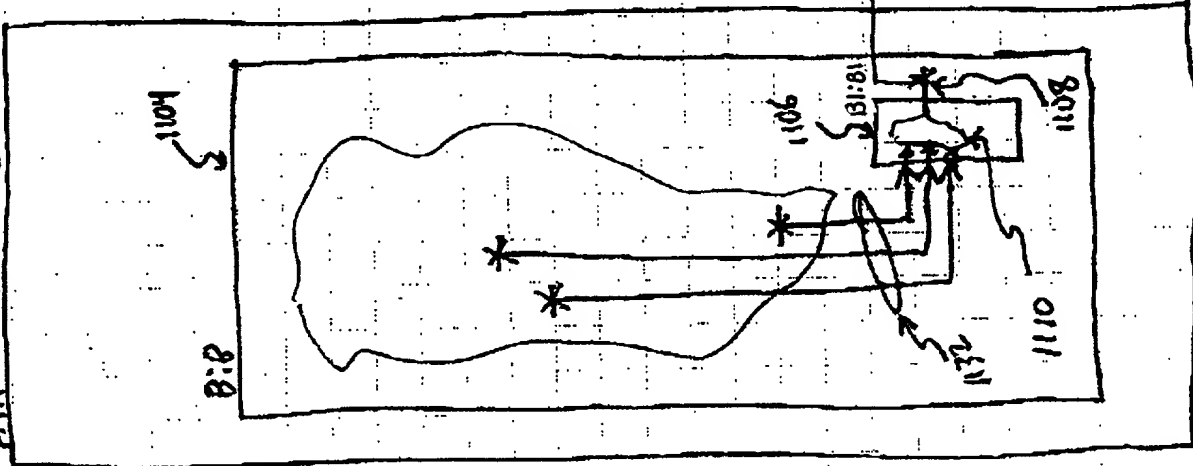
11203

cic



1102

A:A



1100

FIG. 11A

Table 1. Demographic characteristics of the study population	
Age (years)	65.0 ± 10.0
Gender	
Male	50 (50.0%)
Female	50 (50.0%)
Education (years)	12.0 ± 2.0
Marital status	
Married	40 (80.0%)
Single	10 (20.0%)
Occupation	
Retired	30 (60.0%)
Unemployed	20 (40.0%)
Income (USD/month)	1000.0 ± 500.0
Health status	
Good	30 (60.0%)
Poor	20 (40.0%)
Comorbidities	
Hypertension	15 (30.0%)
Diabetes	10 (20.0%)
Cholesterol	12 (24.0%)
Smoking status	
Smoker	10 (20.0%)
Non-smoker	40 (80.0%)
Alcohol consumption	
Regular	5 (10.0%)
Occasional	15 (30.0%)
Never	30 (60.0%)

--!! inputs 1165

--!! event\_1108\_in <= C. [B2. count. event\_1108]; 1161

--!! event\_1124\_in <= A.B. [B1. count. event\_1124]; 1162

--!! end inputs 1164

FIG. 11B

```
--!! inputs
--!! event_1108_in <= c.[count,event_1108]j 3 1171
--!! event_1124_in <= B.[count,event_1124]j 3 1172
--!! end inputs
```

211  
+ 216.